To: Mike Kolian (kolian.michael@epa.gov)[kolian.michael@epa.gov]
Cc: Lisa Bacanskas (bacanskas.lisa@epa.gov)[bacanskas.lisa@epa.gov]

From: Birnbaum, Rona

Sent: Tue 5/16/2017 8:09:50 PM
Subject: FW: Freshwater indicators article
NCA FITT external review draft v2.docx

Yes, please review and comment...including how we speak to the 'pilot system' or not

From: Bierwagen, Britta

Sent: Tuesday, May 16, 2017 2:50 PM

To: Birnbaum, Rona <Birnbaum.Rona@epa.gov>

Subject: Freshwater indicators article

Hi Rona,

As you know, the USGCRP developed a climate change indicator effort and launched the pilot system alongside the Third National Climate Assessment. I was part of the team that developed the report on freshwater indicators.

The teams are now putting together journal articles for a special issue in *Climatic Change*. Attached is the draft article on the proposed freshwater indicators of climate change effects that is going through clearance in ORD. I wanted to send it to you, since the article is going to the ORD IOAA for advanced notification. It may get transmitted to OAR, and I wanted you to be aware of it.

Please let me know if you have any questions about this effort. And please let me know if you have any comments on the article.

Thanks! Hope things are going well.

Cheers, Britta

Britta Bierwagen, Ph.D. | Group Chief, Exposure Analysis and Risk Characterization Group (Ecological and Global Change Assessment Teams) | National Center for Environmental Assessment | U.S. EPA – ORD (MC 8601P) | 1200 Pennsylvania Ave., NW | Washington, D.C. 20460

Phone: 703-347-8613 | Fax: 703-347-8694 | bierwagen.britta@epa.gov

Physical and overnight delivery address: U.S. EPA North Potomac Yard S-11813 | 2777 S. Crystal Dr.. | Arlington, VA 22202